This listing of claims will replace all prior versions, and listings, of claims in the application.

## **Listing of Claims:**

- (currently amended) A tactile feedback apparatus for a cursor control device comprising:
   a cursor control mechanism;
- a piezo-electric material mounted on a semi-rigid substrate;
  the substrate coupled to the cursor control mechanism; and
  a control circuit electrically interconnected to the piezo-electric material for providing a signal to
  cause the piezo-electric material to vibrate;

the cursor control mechanism providing a z-axis output signal in response to being actuated by an operator;

the control circuit sensing the z-axis output signal and providing a control signal to cause the piezo-electric material to vibrate in response to the z-axis output signal; and the piezo-electric material adapted to vibrate for a pre-determined period of time.

- 15 2. (canceled).
  - 3. (original) The tactile feedback apparatus of claim 1 and wherein: the semi-rigid material is a thin layer of metal.
- 4. (original) The tactile feedback apparatus of claim 1 and wherein: the semi-rigid material is an alumina material.

- 5. (original) The tactile feedback apparatus of claim 1 and wherein: the semi-rigid material comprises an additional piezo-electric wafer.
- 6. (original) The tactile feedback apparatus of claim 1 and wherein:
  the semi-rigid material comprises a ceramic material.
  - an indicating circuit for providing an indicating signal when the cursor is placed over a predefined position on a display; and the control circuit providing the control signal to cause the piezo-electric material to vibrate in response to the indicating signal.

7. (original) The tactile feedback apparatus of claim 1 and further comprising:

- 8. (original) The tactile feedback apparatus of claim 4 and wherein
- the indicating circuit for providing an indicating signal is active when the cursor is placed over an active area on the display.
  - 9. (original) The tactile feedback apparatus of claim 1 and wherein the piezo-electric material comprises a plurality of layers of piezo-electric material.

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10. (currently amended) A computer input system comprising:

a computer;

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a cursor control device electrically interconnected to the computer;

software for determining a cursor position based upon user actuation of the cursor control device;

5 the cursor control device further comprising:

an x-, y-, and z-axis sensor system;

a piezo-electric material mounted to a semi-rigid material and mechanically coupled to the cursor control device;

an electric circuit for generating a predefined signal;

an electrical interconnection between the computer and the piezo-electric material, the piezo-electric material being formed to vibrate upon activation by a the predefined electrical signal;

the piezo-electric material providing tactile feedback to the user when activated by the predefined electrical signal;

- the software determining a condition requiring tactile feedback and providing the predefined electrical signal to the piezo-electric material in the cursor control device; and the software further adapted to cause the piezo-electric material to vibrate for a predetermined period of time.
- 20 11. (currently amended) The computer input system of claim 6 10 and further comprising: the predefined electrical signal is an ac signal.

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12. (currently amended) The computer input system of claim 7 11 and wherein the ac signal is at least 20 volts peak to peak with a frequency of at least 300 Hz.

13-14. (canceled).

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15. (currently amended) The computer input system of claim 6 10 and wherein the cursor control device is a pointing stick.

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16. (currently amended) The computer input system of claim 6 10 and wherein the cursor control device is a mouse.

17. (canceled).

18. (currently amended) A tactile feedback for a cursor control device comprising:

a user actuated linkage a cursor control device for providing a desired cursor movement;

a piezo-electric assembly operable as a source of vibrations; and

a control device for sensing a predefined condition and providing an electrical signal to activate the piezo-electric assembly; and wherein the piezo-electric assembly is mechanically coupled to the user-actuated linkage the cursor control device to deliver the vibrations to the a user; and an input suppression module coupled to the cursor control device, the input suppression module adapted to deactivate the cursor control device for a pre-determined period of time in response to detecting the electrical signal generated by the control device.

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19. (currently amended) A method for providing a tactile feedback comprising the following steps:

providing a cursor control device;

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providing a piezo-electric assembly that vibrates upon electrical activation;

mounting the material piezo-electric assembly to the cursor control device to provide a mechanical transfer of vibrations from the material piezo-electric assembly to the cursor control device;

sensing a predefined condition for which tactile feedback is desired; and

disabling the cursor control device when the predefined condition is sensed;

activating the piezo-electric assembly to provide mechanical vibrations to the cursor control device for a predetermined period of time; and

enabling the cursor control device after the predetermined period of time.